IN THE CLAIMS

Please cancel claim 4 without prejudice or disclaimer.

Please amend claims 1 and 7, as follows.

1. (Currently Amended) An optical analysis device comprising:

a cylindrical columnar light-transmitting member for transmitting light, having an external face capable of immobilizing a detection-objective substance, a first end, and a second end;

a means for introducing an exciting light into the light-transmitting member at the first end;

light separating means at the second end for separating [[an]] the exciting light from a fluorescence light, the exciting light being introduced into the light-transmitting member at the first end when the detection-objective substance is immobilized by the external face and transmitted through the light-transmitting member, and the fluorescence light being generated by excitation of the detection-objective substance by the exciting light;

condenser means for condensing the fluorescence light separated by the light separating means; [[and]]

detecting means for detecting the fluorescence light condensed by the condenser means; and

a flow path which covers the light-transmitting member and has an inlet for introducing the detection-objective substance and an outlet for discharging the detection-objective substance.

<u>wherein the whole surface of the region of the light-transmitting member covered with the flow path is in contact with a medium which exists in the flow path.</u>

2. (Original) The optical analysis device according to claim 1, wherein the light-separating means is a diffraction grating.

3. (Original) The optical analysis device according to claim 1, wherein the light-transmitting member comprises an optical waveguide.

4. (Cancelled)

5. (Original) The optical analysis device according to claim 1, wherein the light-transmitting member has at the first end thereof a coupling means for coupling the exciting light to the light-transmitting member.

6. (Original) The optical analysis device according to claim 5, wherein the coupling means is a diffraction grating.

7. (Currently Amended) The optical analysis device according to any of claims ~~1-6~~ <u>1-3, 5, and 6,</u> wherein the external face of the light-transmitting member is capable of immobilizing a trapping component for trapping the detection-objective substance.

8. (Original) The optical analysis device according to claim 7, wherein the trapping component traps the detection-objective substance by an antigen-antibody reaction.

9. (Original) The optical analysis device according to claim 7, wherein the trapping component traps the detection-objective substance by hybridization reaction of DNA.